

MAGNETIC DIRT SEPARATOR

SATURN MAGNETO



Magnetic dirt separator made in brass with magnetic cartridge 12.000 gauss power and stainless-steel filter cartridge

Main body and components in conformity with UBA list

PN 10 – Maximum inlet pressure 10 bar

Filter cartridge mesh 1000 micron

Maximum working temperature: 110° C

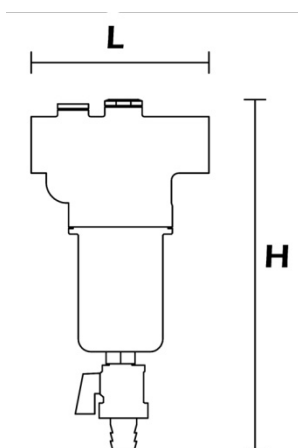
Seals in NBR

Connection for airvent 3/8"

Threaded FF ISO 228

Available sizes: from 3/4" (DN20) to 1"1/2 (DN40)

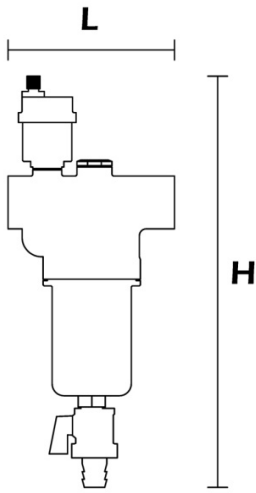
MAGNET
INSIDE



Code	size	DN	H mm	L mm	Weight Gr
449239 006	¾"	20	234	115	1.590
449239 008	1"	25	234	115	1.535
449239 010	1"1/4	32	265	137	2.290
449239 011	1"1/2	40	265	137	2.210

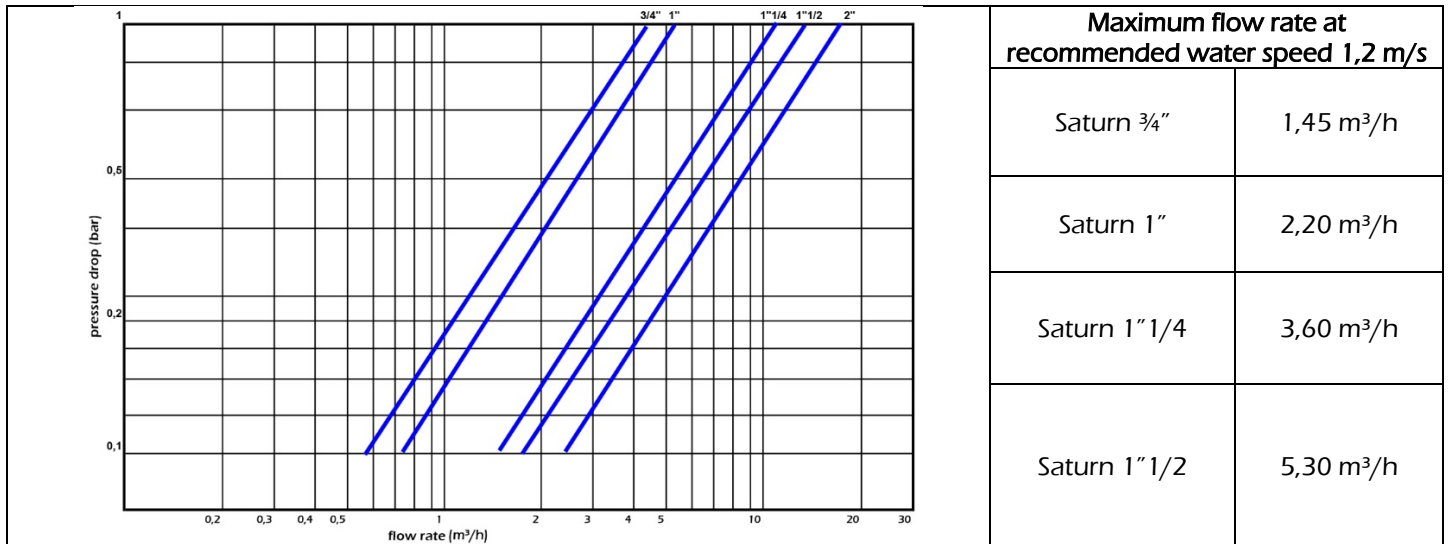


Pressure always under control.



Code	Size	DN	H mm	L mm	Weight Gr
449239 106	3/4"	20	295	115	1.730
449239 108	1"	25	295	115	1.670
449239 110	1"1/4	32	325	137	2.430
449239 111	1"1/2	40	325	137	2.350

FLOW RATE vs PRESSURE DROP CHART:



MAINTENANCE AND OPERATIONS



WARNING: keep Magnetic cartridge away from any electronic device.

WARNING: make sure that the devices are correctly earthed near the SATURN dirt separator filters; the presence of stray electrical dispersions can cause damage and breakage to the brass alloy parts.

WARNING: Cartridge inspection must be performed with the utmost attention following the instructions given. Assembly and disassembly of accessories and cartridges must always be carried out in the absence of residual pressure inside the filter.

WARNING: installation and maintenance operations must be carried out by qualified personnel, using suitable tools; follow indication about the maximum tightening torques.

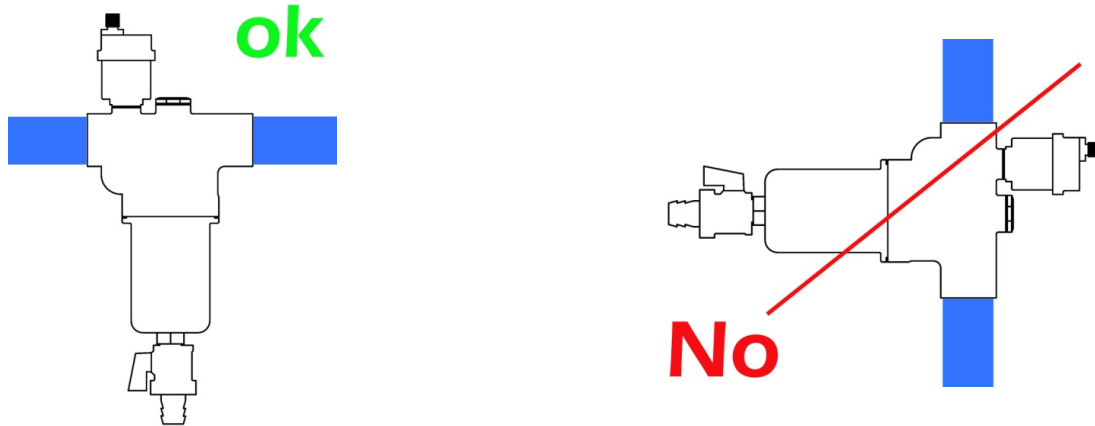
WARNING: The inspection of the filter cartridge and the magnetic cartridge can be performed without disassembling the filter head from the system.



Pressure always under control.

INSTALLATION OF SATURN DIRT SEPARATOR

To optimize the deposit of debris and the operation of the air vent valves (in the case of the V versions), it is necessary to install the SATURN dirt separator filters in a horizontal position; the flow arrow printed on the filter body indicates the correct flow direction of the liquid:



AIRVENT INSTALLATION

All SATURN dirt separators are equipped with a 3/8" F connection for mounting an automatic airvent valve; the airvent valve is included in the SATURN V versions and fitted during the installation of the dirt separator filter.

Remove the 3/8" cap located on the filter head, loosening it with an open wrench; assemble the supplied automatic air vent valve (only SATURN V versions) or with another automatic air vent valve 3/8" size.

The 3/8" plug has a mechanical seal by means of an O-ring while the valve assembly must be carried out with liquid sealant or Teflon; max tightening torque: 13 Nm.



RETROFITTING OF MAGNETIC CARTRIDGE

All SATURN dirt separators are equipped with a 1/2" F connection for mounting the magnetic cartridge; the magnetic cartridge is supplied as standard in the SATURN MAGNETO versions and is pre-assembled; MAGNETO cartridge can also be supplied as a spare for subsequent assembly on the SATURN and SATURN V series.

Remove central 1/2" brass plug from the head of the filter using a 23 mm open wrench; insert the magnetic cartridge and tighten the plug.



Pressure always under control.

Before installing the magnetic cartridge check the presence of the sealing O-ring.



This assembly do not need any specifi sealant; maximum assembly torque: 15 Nm.

MAINTENANCE AND CLEANING OF CARTRIDGES

Ordinary cleaning of the SATURN dirt separator filter is carried out by opening the drain valve; in this way the debris deposited on the bottom of the filter are eliminated.

For manual inspection and cleaning (to be carried out annually) of the dirt separator cartridge and the magnetic cartridge (MAGNETO versions only), follow the instructions below.

For this operation it is not necessary to disassemble the drain valve.



- Close inlet and outlet flow; open the drain valve on the bottom of the filter;
- Once water is fully drained, disassemble the filter cup using a 24mm open wrench on the hexagonal shaped on the bottom of the filter, next to the drain valve (do not disassemble drain valve);
- Remove completely the filter cup, remove the stainless-steel cartridge and proceed with manual cleaning.

To clean the stainless-steel cartridge, in case of using aggressive tools or products, remove the sealing rubbers at the ends of the cartridge, in order to avoid damage.

Carefully reposition the cartridge inside the cup, align the head and tighten the filter cup to the head.

The seal of the glass on the filter is mechanical with O-ring and does not require sealants or Teflon. Maximum tightening torque 15 Nm.

Once the assembly of the cup on the filter head has been correctly completed, close the drain valve and restore the liquid flow.